

**Abstract**

A method and device for accelerating a color conversion process that converts input image data corresponding to a first color space to output image data corresponding to an output color space. A temporary cache stores color information in an array, and

5      performs a conversion calculation for each individual color combination. If a pixel corresponds to a new color combination, the pixel information is stored in a new index of the array. If the pixel repeats a previously processed color, the pixel information is stored in the same index of the array as the previously processed pixel. A color conversion calculation is performed after all pixels within a block of pixels are mapped

10     to the temporary array.